

Title (en)

PROCESS FOR PURIFYING A CRUDE PYROLYSIS OIL ORIGINATING FROM THE PYROLYSIS OF PLASTIC WASTE

Title (de)

VERFAHREN ZUR REINIGUNG EINES AUS DER PYROLYSE VON KUNSTSTOFFABFÄLLEN STAMMENDEN ROHEN PYROLYSEÖLS

Title (fr)

PROCÉDÉ DE PURIFICATION D'UNE HUILE DE PYROLYSE BRUTE PROVENANT DE LA PYROLYSE DE DÉCHETS PLASTIQUES

Publication

**EP 3907267 A1 20211110 (EN)**

Application

**EP 20173653 A 20200508**

Priority

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Abstract (en)

The present invention relates to a process for purifying a crude nitrogen-containing, sulfur-containing, halogen-containing pyrolysis oil originating from the pyrolysis of plastic waste, comprising(i) subjecting the crude pyrolysis oil to a treatment with a trapping agent selected from (a) an elemental metal of group 1, 2, 6, 7, 8, 9, 10, 11, 12, 13 of the IUPAC periodic table, a mixture or an alloy thereof; (b) an oxide of metals of group 1, 2, 6, 7, 8, 9, 10, 11, 12, 13 of the IUPAC periodic table or a mixture thereof; (c) an alkoxide of metals of group 1, 2 of the IUPAC periodic table or a mixture thereof; (d) a solid sorption agent as defined in the claims; or a combination of at least two trapping agents (a), (b), (c) or (d);(ii) separating the product obtained into a purified pyrolysis oil fraction having a reduced nitrogen, sulfur and halogen content in relation to the crude pyrolysis oil and a fraction comprising the trapping agent which has bound at least a part of the sulfur, nitrogen, halogen present in the crude pyrolysis oil.

IPC 8 full level

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